

PCG-V505G/V505T4/V505VZ
PCG-V505EC/V505ECP/V505EX/V505EXP/**V505NFP**
PCG-V505DP
PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP

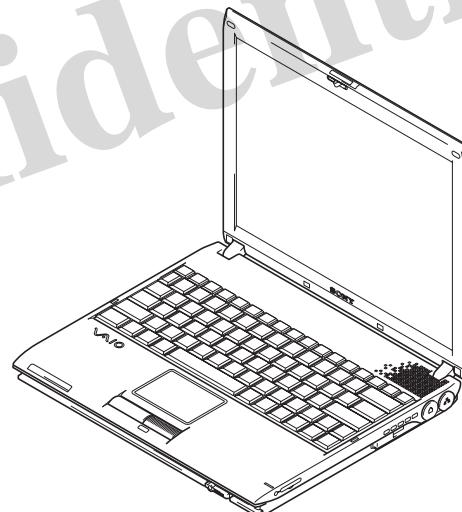
SERVICE MANUAL

Ver. 6 2004D

Revision History

Area	Model	Lineup
Japanese	Japanese	PCG-V505G/B PCG-V505T4* PCG-V505T4/P* PCG-V505VZ/P
American	US Canadian	PCG-V505EC* PCG-V505ECP* PCG-V505EX PCG-V505EXP
	Latin	PCG-V505NFP
European	AEP/UK	PCG-V505DP
Asian/Oceania/ South Africa	Chinese	PCG-V505MNCP PCG-V505MNJP
	International	PCG-V505MNP
	Thai	PCG-V505MNSP
	Taiwan	PCG-V505NTP

* : CTO Model



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NOTEBOOK COMPUTER

SONY®

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All other names of systems, products and services in this manual are trademarks or registered trademarks of their respective owners. In this manual, the (TM) or (R) mark are not specified.

Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on the battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate. Dispose of used battery promptly. Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilatiation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
 - If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify any parts requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the  mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270°C.
 - Do not apply the tip more than three times to the same pattern.
 - Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS LE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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PGC-V505G/V505T4/V505V7 (1)

505EXP/V505NFP (AM)

PCG-V505DP (EU)

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History of the changes is shown as the “Revision History” at the end of this data.					
変更履歴は，“Revision History”として、本データ末に記載しております。					

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PCG-V505G/V505T4/V505VZ (J)
 PCG-V505EC/V505ECP/V505EX/V505EXP/**V505NFP** (AM)
 PCG-V505DP (EU)
 PCG-V505MNCP/**V505MNJP**/V505MNP/V505MNSP/V505NTP (AO)

CHAPTER 1.

SPECIFICATIONS

1-1. Specifications

	J				AM				
	PCG-V505G/B	PCG-V505VZ/P	PCG-V505T4*	PCG-V505T4/P*	PCG-V505EXP	PCG-V505EX	PCG-V505EC	PCG-V505ECP	PCG-V505NFP
CPU	PM-1.5GHz	PM-1.5GHz	PM-1.8GHz or PM-1.5GHz	PM-1.8GHz or PM-1.5GHz	PM-1.5GHz	PM-1.5GHz	PM-1.8GHz or PM-1.7GHz or PM-1.5GHz or PM-1.4GHz or Mobile Cel1.2GHz	PM-1.5GHz	PM-1.5GHz
LCD	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA
HDD	40GB	40GB	80GB or 60GB or 40GB	80GB or 60GB or 40GB	60GB	60GB	80GB or 60GB or 40GB	40GB	40GB
Graphic	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)
MEMORY1	256MB × 1	256MB × 1	1GB × 2 or 512MB × 2 or 512MB × 1 or 256MB × 1	256MB × 2	256MB × 2	1GB × 2 or 1GB × 1 or 512MB × 2 or 512 × 1 or 256 × 2 or 256MB × 1	256MB × 1	256MB × 1	256MB × 1
QUANTITY [MAX]	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB
OPT-DRIVE	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM or DVD-RW	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM or DVD-RW	CD-RW/DVD-ROM or DVD-RW	CD-RW/DVD-ROM	CD-RW/DVD-ROM
internal W-LAN	○	○	○	○	○	○	○ or None	○ or None	○
AC adaptor	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6
Battery	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V or PCGA-BP4V	PCGA-BP2V	PCGA-BP2V
OS	WinXP Home	WinXP Pro	WinXP Home	WinXP Pro	WinXP Pro	WinXP Home	WinXP Home	WinXP Pro	WinXP Pro

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	EU			AO		
	PCG-V505DP	PCG-V505MNP	PCG-V505MNSP	PCG-V505NTP	PCG-V505MNCP	PCG-V505MNJP
CPU	PM-1.6GHz	PM-1.6GHz	PM-1.6GHz	PM-1.6GHz	PM-1.6GHz	PM-1.6GHz
LCD	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA
HDD	60GB	60GB	60GB	60GB	60GB	60GB
Graphic	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)
MEMORY1	512MB × 1					
QUANTITY [MAX]	2GB	2GB	2GB	2GB	2GB	2GB
OPT-DRIVE	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM
internal W-LAN	○	○	○	○	○	None
AC adaptor	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6
Battery	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V
OS	WinXP Pro					

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• The trademarks of registered trademarks of above table, refer to page 2.

• The model that is accompanied by asterisk (*) is CTO model.

The parts to component for CTO models, refer to CTO Information.

• 本表中の商標・登録商標については、2ページをご参照ください。

• 機種名に (*) がつくものはCTOモデルです。

組み合わせについてはCTO Informationをご確認ください。

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PCG-V505G/V505T4/V505VZ (J)

PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)

PCG-V505DP (EU)

PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)

1-2. CTO Information

Model name:PCG-V505T4 (Japanese Area)

Model number:PCG-6B1N

OS:Windows XP Home

Ver.1.1

CPU	P-M 1.8GHz RH80536GC0332M 6-600-304-01	P-M 1.5GHz RH80535GC0211MSL6F9 6-600-304-01		
HDD	80 GB ASSY HDD 80GB (H,40) (S) A-8117-058-A	60 GB ASSY HDD 60GB (H,40) (S) A-8117-585-A	40GB ASSY HDD 40GB (H,40) (S) A-8117-059-A	
LCD	12.1 XGA LCD UNIT (12.1 TFT XGA) (S) A-8118-175-A			
Memory	2GB(1GBx2) EBD11UD8ABDA-6B 6-705-343-01	1GB(512MBx2) COMPLETE PWB MM-10A A-8068-348-A	512MB(512MBx1) COMPLETE PWB MM-10A A-8068-348-A	256MB(256MBx1) M470L3224FT0-CB3 6-705-094-01
Opt.Drive	DVD-RW 9.5 DVDRW (UJ-812, 9.5MM) 1-796-892-12	9.5mm Combo (x8) COMBO DRIVE (UJDA755, 9.5MM) 1-796-822-11		
W-Lan	MiniPCI CARD, WIRELESS LAN 1-761-784-11			
Battery	BP2V BP2V (J) ASSY (S) A-8114-136-A			
Office	Office Personal 2003	None		
Adobe	Adobe LE	None		
LABEL ID	V505T4 LABEL (ID(J)) 4-680-777-11			
BEZEL (OP)	DVD-RW BEZEL (OP) (M) (RW) ASSY X-4626-549-1	Combo BEZEL (OP) (M) ASSY X-4625-590-3		
SPACER,BEZEL (OP)	DVD-RW SPACER,BEZEL (OP) 2-021-077-01	None		

Model name:PCG-V505T4/P (Japanese Area)

Model number:PCG-6B1N

OS:Windows XP Pro

Ver.1.1

CPU	P-M 1.8GHz RH80536GC0332M 6-600-304-01	P-M 1.5GHz RH80535GC0211MSL6F9 6-600-304-01		
HDD	80 GB ASSY HDD 80GB (H,40) (S) A-8117-058-A	60 GB ASSY HDD 60GB (H,40) (S) A-8117-585-A	40GB ASSY HDD 40GB (H,40) (S) A-8117-059-A	
LCD	12.1 XGA LCD UNIT (12.1 TFT XGA) (S) A-8118-175-A			
Memory	2GB(1GBx2) EBD11UD8ABDA-6B 6-705-343-01	1GB(512MBx2) COMPLETE PWB MM-10A A-8068-348-A	512MB(512MBx1) COMPLETE PWB MM-10A A-8068-348-A	256MB(256MBx1) M470L3224FT0-CB3 6-705-094-01
Opt.Drive	DVD-RW 9.5 DVDRW (UJ-812, 9.5MM) 1-796-892-12	9.5mm Combo (x8) COMBO DRIVE (UJDA755, 9.5MM) 1-796-822-11		
W-Lan	MiniPCI CARD, WIRELESS LAN 1-761-784-11			
Battery	BP2V BP2V (J) ASSY (S) A-8114-136-A			
Office	Office Personal 2003	None		
Adobe	Adobe LE	None		
LABEL ID	V505T4/P LABEL (ID(J)) 4-680-777-01			
BEZEL (OP)	DVD-RW BEZEL (OP) (M) (RW) ASSY X-4626-549-1	Combo BEZEL (OP) (M) ASSY X-4625-590-3		
SPACER,BEZEL (OP)	DVD-RW SPACER,BEZEL (OP) 2-021-077-01	None		

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PCG-V505G/V505T4/V505VZ (J)

PCG-V505EC/V505ECP/V505EX/V505EXP/**V505NFP** (AM)

PCG-V505DP (EU)

PCG-V505MNCP/**V505MNJP**/V505MNP/V505MNSP/V505NTP (AO)

Model name:PCG-V505EC (American Area)
 Model number:PCG-6B1L(With W-LAN),6B2L(No W-LAN)
 OS:Windows XP Home
 Ver.1.0

CPU	P-M 1.8GHz RH80535GC0332M 6-690-396-01	P-M 1.7GHz RH80535GC0291MSL6N5 6-690-394-01	P-M 1.5GHz RH80535GC0211MSL6F9 6-690-393-01	P-M 1.4GHz RH80535NC009512SL79S 6-690-393-01	Cel 1.2GHz RH80535NC009512SL79S 6-690-393-01
HDD	80 GB ASSY HDD 80GB (H, 40) (S) A-8117-059-A	60 GB ASSY HDD 60GB (H, 40) (S) A-8117-059-A	40GB ASSY HDD 40GB (H, 40) (S) A-8117-059-A		
LCD	12.1 XGA LCD UNIT (12.1 TFT XGA) (S) A-8118-175-A				
Memory	2GB (1Gb×2) E8058-343-01	TB1 (1Gb×1) E8058-343-01	TB2 (1Gb×2) COMPLETE PWB MM-10A A-8098-348-A	TB3 (1Gb×2) COMPLETE PWB MM-10A A-8098-348-A	TB4 (1Gb×2) COMPLETE PWB MM-10A A-8098-348-A
Opt.Drive	DVD-RW 9.5 DVD-RW (U-812, 9.5MM) 1-796-892-12	9.5mm Combo (W8) COMBO DRIVE (UJDAT55, 9.5MM) 1-796-892-11			
W-Lan	MiniPCI WIRELESS LAN CARD 1-761-864-11				
Battery	BP4V BP4V (U) ASSY (S) A-8114-137-A	BP4V BP4V (U) ASSY (S) A-8114-139-A			
Office	Office Personal 2003 None				
LABEL ID	V505EC IO (LABEL) (U) 1-681-844-41				
BEZEL (OP)	DVD-RW BEZEL (OP) (M) (RW) ASSY X-4626-549-1	Combo BEZEL (OP) (M) ASSY X-4626-593-0			
COVER, LENS	W-LAN model (W-LAN)...COVER, LENS 1-670-554-12	No W-LAN model None 1-670-554-02			
ESCUTCHEON (F)	W-LAN model (W-LAN)...ESCUTCHEON (F) (W-LAN) (UL) ASSY X-4626-274-1	No W-LAN model (W-LAN)...ESCUTCHEON (F) (W-LAN) (UL) ASSY X-4626-273-1			
FERRITE CORE	W-LAN model (W-LAN)...FERRITE CORE 1-400-256-11	None			
COPPER TAPE FAN	W-LAN model (W-LAN)...COPPER TAPE FAN 1-673-232-01	None			
COVER FERRITE CORE	W-LAN model (W-LAN)...COVER FERRITE CORE 1-673-025-01	None			
ANTENNA, FILM (FOR LEFT)	W-LAN model (W-LAN)...ANTENNA, FILM (FOR LEFT) 1-754-272-12	None			
ANTENNA, FILM (FOR RIGHT)	W-LAN model (W-LAN)...ANTENNA, FILM (FOR RIGHT) 1-754-272-22	None			
CUSHION (ANT)	W-LAN model (W-LAN)...CUSHION (ANT) 1-670-485-01	None			
FILAMENT TAPE	W-LAN model (W-LAN)...FILAMENT TAPE (W12X50) None				

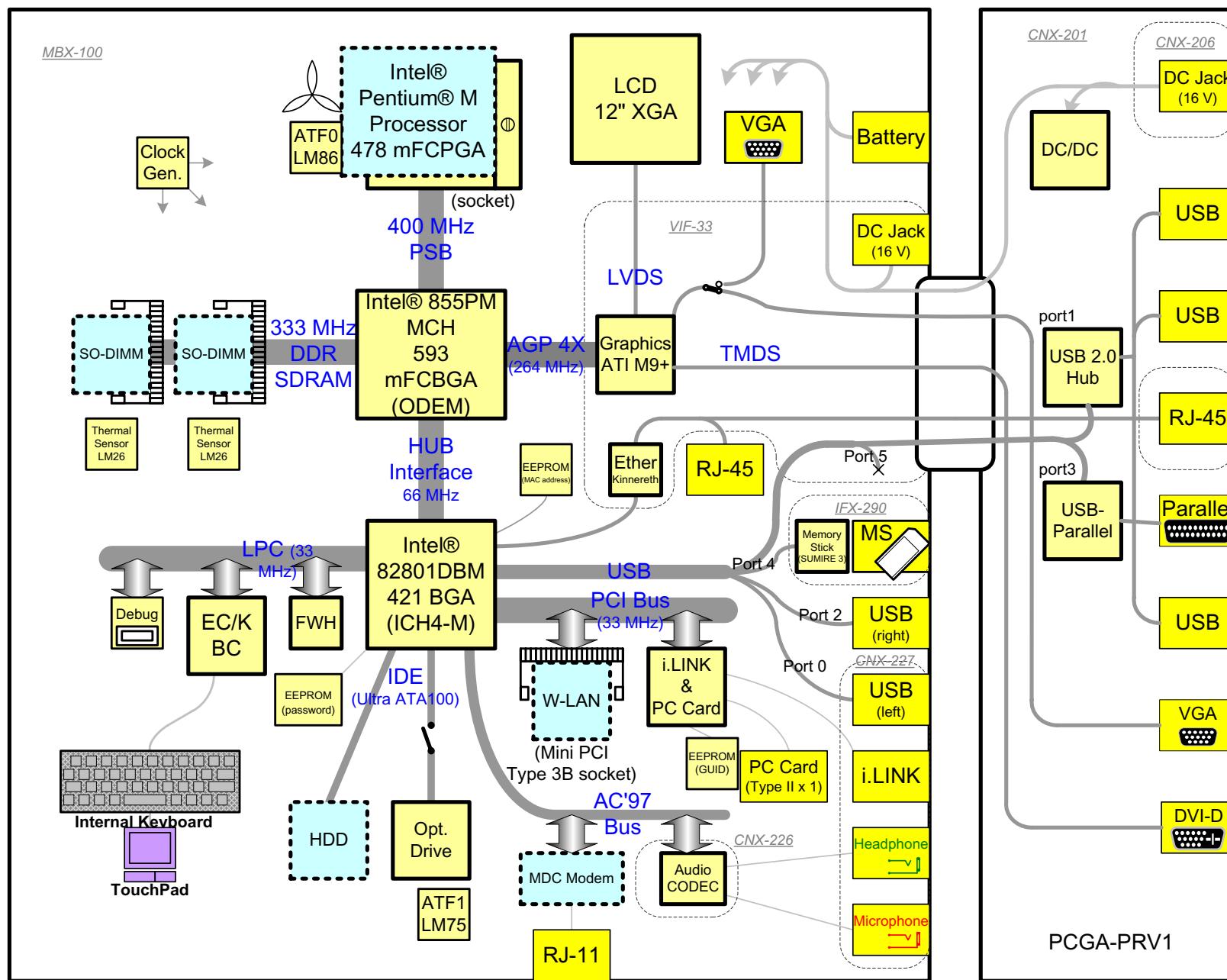
Model name:PCG-V505ECP (American Area)
 Model number:PCG-6B1L(With W-LAN),6B2L(No W-LAN)
 OS:Windows XP Pro
 Ver.1.0

CPU	P-M 1.8GHz RH80535GC0332M 6-690-396-01	P-M 1.7GHz RH80535GC0291MSL6N5 6-690-394-01	P-M 1.5GHz RH80535GC0211MSL6F9 6-690-393-01	P-M 1.4GHz RH80535NC009512SL79S 6-690-393-01	Cel 1.2GHz RH80535NC009512SL79S 6-690-393-01
HDD	80 GB ASSY HDD 80GB (H, 40) (S) A-8117-059-A	60 GB ASSY HDD 60GB (H, 40) (S) A-8117-059-A	40GB ASSY HDD 40GB (H, 40) (S) A-8117-059-A		
LCD	12.1 XGA LCD UNIT (12.1 TFT XGA) (S) A-8118-175-A				
Memory	2GB (1Gb×2) E8058-343-01	TB1 (1Gb×1) E8058-343-01	TB2 (1Gb×2) COMPLETE PWB MM-10A A-8098-348-A	TB3 (1Gb×2) COMPLETE PWB MM-10A A-8098-348-A	TB4 (1Gb×2) COMPLETE PWB MM-10A A-8098-348-A
Opt.Drive	DVD-RW 9.5 DVD-RW (U-812, 9.5MM) 1-796-892-12	9.5mm Combo (W8) COMBO DRIVE (UJDAT55, 9.5MM) 1-796-892-11			
W-Lan	MiniPCI WIRELESS LAN CARD 1-761-864-11				
Battery	BP4V BP4V (U) ASSY (S) A-8114-137-A	BP4V BP4V (U) ASSY (S) A-8114-139-A			
Office	Office Personal 2003 None				
LABEL ID	V505EC IO (LABEL) (U) 1-681-844-41				
BEZEL (OP)	DVD-RW BEZEL (OP) (M) (RW) ASSY X-4626-549-1	Combo BEZEL (OP) (M) ASSY X-4626-593-0			
COVER, LENS	W-LAN model (W-LAN)...COVER, LENS 1-670-554-12	No W-LAN model None 1-670-554-02			
ESCUTCHEON (F)	W-LAN model (W-LAN)...ESCUTCHEON (F) (W-LAN) (UL) ASSY X-4626-274-1	No W-LAN model (W-LAN)...ESCUTCHEON (F) (W-LAN) (UL) ASSY X-4626-273-1			
FERRITE CORE	W-LAN model (W-LAN)...FERRITE CORE 1-400-256-11	None			
COPPER TAPE FAN	W-LAN model (W-LAN)...COPPER TAPE FAN 1-673-232-01	None			
COVER FERRITE CORE	W-LAN model (W-LAN)...COVER FERRITE CORE 1-673-025-01	None			
ANTENNA, FILM (FOR LEFT)	W-LAN model (W-LAN)...ANTENNA, FILM (FOR LEFT) 1-754-272-12	None			
ANTENNA, FILM (FOR RIGHT)	W-LAN model (W-LAN)...ANTENNA, FILM (FOR RIGHT) 1-754-272-22	None			
CUSHION (ANT)	W-LAN model (W-LAN)...CUSHION (ANT) 1-670-485-01	None			
FILAMENT TAPE	W-LAN model (W-LAN)...FILAMENT TAPE (W12X50) None				

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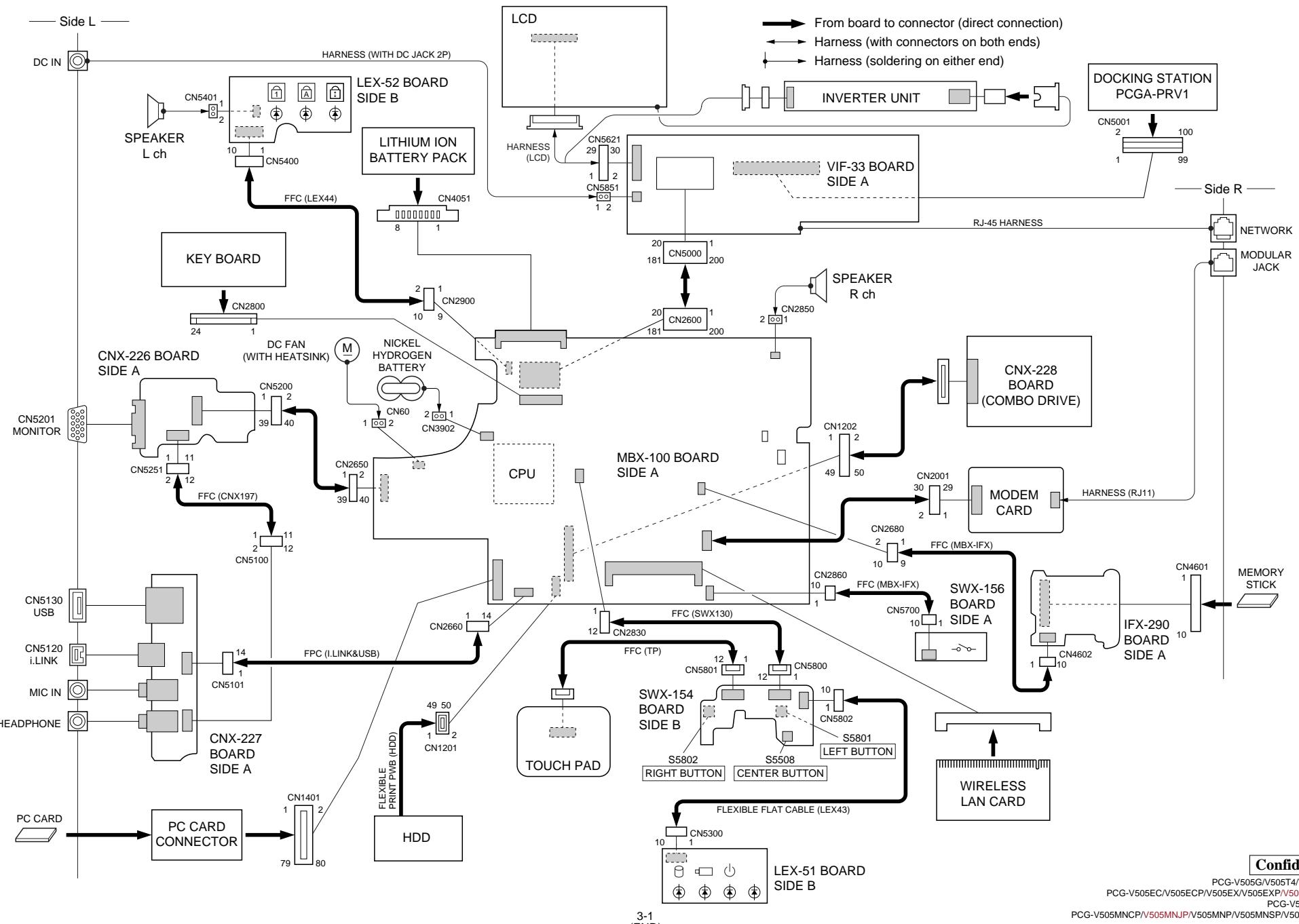
PCG-V505G/V505T4/V505VZ (J)
 PCG-V505EC/V505ECP/V505EX/V505EXP/**V505NFP** (AM)
 PCG-V505DP (EU)
 PCG-V505MNCP/**V505MNJP**/V505MNP/V505MNSP/V505NTP (AO)

CHAPTER 2. BLOCK DIAGRAM



CHAPTER 3.

FRAME HARNESS DIAGRAM



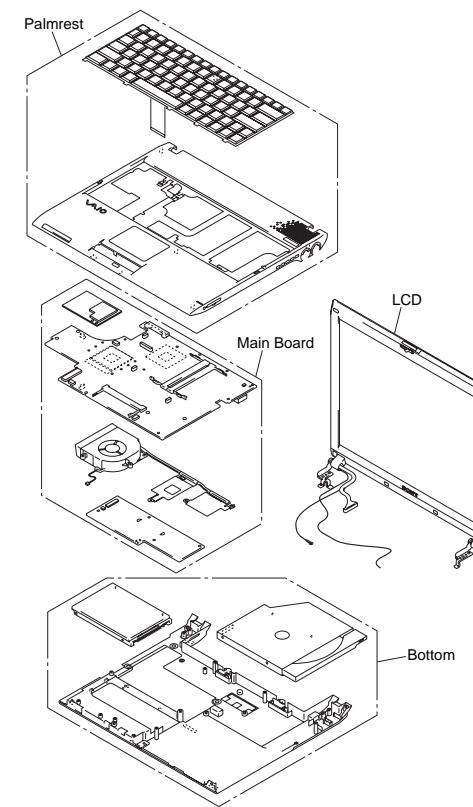
CHAPTER 4.

EXPLODED VIEWS AND PARTS LIST

- The parts list is compiled by blocks of a palmrest and bottom etc. The sections of the parts list are different depending on the model. Please refer to list of contents shown in the below.

- 分解図と部品表は、パームレスト、ボトムなどのブロックごとに分かれています。機種によって部品表のセクションが異なりますので、詳細は右下の一覧表を参照してください。

Section	Page
Palmrest	
P-1	4-2
Main Board	
M-1	4-3
Bottom	
B-1	4-4
LCD	
L-1	4-5
Accessory	
A-1	4-6



- NOTE:**
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - The mechanical parts with no reference number in the exploded views are not supplied.
 - When two or more parts are shown, use the part described first as the main part.
 - The parts marked "\$" are the High Value Modules (HVM).
 - The parts marked "#" are the parts on which barcode label is attached. For the barcode label, refer to CHAPTER 5.
 - The parts marked "&" are the "Customer Replaceable Parts (CRP)" that can be replaced by Field Customer Support. Especially the parts with the <&> mark require the special attention to use them. Herefore, check first whether the desired part is one of the targetted parts of the Customer Replaceable Parts (CRP), or the non-targetted parts by referring to the exploded view.
 - The model that is accompanied by asterisk (*) is CTO model. The parts to component for CTO models, refer to CTO Information.

- 【使用上の注意】**
- *印の部品は常備在庫しておりません。
 - 図面番号のない部品は供給しません。
 - 併記部品の場合、上部記載部品をメイン部品として使用してください。
 - 部品名称の前に#印のついた部品は、High Value Module (HVM) です。
 - 商品名称の前に#印のついた部品は、バーコードラベル貼付部品です。バーコードラベルについてはCHAPTER 5を参照してください。
 - 部品名称の前に&印のついた部品は、お客様窓口などでも交換可能なCustomer Replaceable Part (CRP) です。
特に<&>のついた部品は、使い分けが必要な部品ですので、分解図でCustomer Replaceable Parts 対象部品か、対象外部品かを必ず御確認ください。
 - 機種名に (e) がつくものはCTO モデルです。
組み合わせについてはCTO Informationをご確認ください。

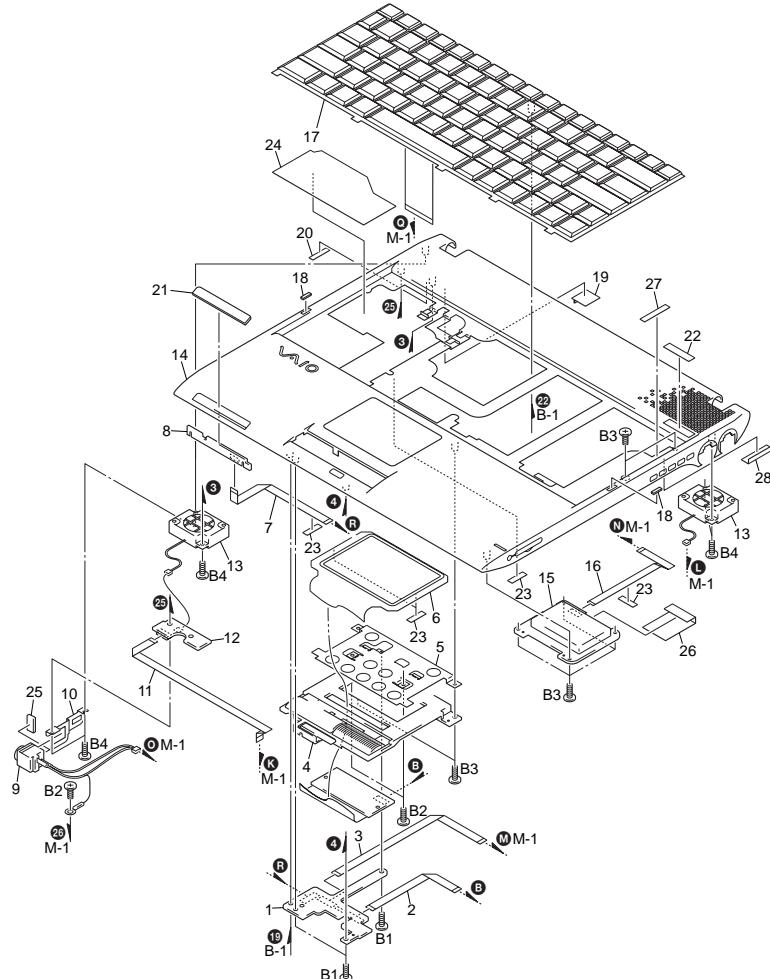
The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

印の部品、または印付きの点線で囲まれた部品は、安全性を維持するために重要な部品です。従って交換時は、必ず指定の部品を使用して下さい。

	Palmrest	Main Board	Bottom	LCD	Accessory
J	V505G/B	P-1	M-1	B-1	L-1
	V505VZ/P	P-1	M-1	B-1	L-1
	V505T4*	P-1	M-1	B-1	L-1
	V505T4/P*	P-1	M-1	B-1	L-1
[MA]	V505EX	P-1	M-1	B-1	L-1
[MA]	V505EXP	P-1	M-1	B-1	L-1
[MA]	V505EC*	P-1	M-1	B-1	L-1
[MA]	V505ECP*	P-1	M-1	B-1	L-1
[MA]	V505NFP	P-1	M-1	B-1	L-1
EU	V505DP	P-1	M-1	B-1	L-1
[MA]	V505MNP	P-1	M-1	B-1	L-1
[MA]	V505MNSP	P-1	M-1	B-1	L-1
[MA]	V505NTP	P-1	M-1	B-1	L-1
[MA]	V505MNCP	P-1	M-1	B-1	L-1
[MA]	V505MNJP	P-1	M-1	B-1	L-1

*: CTO Model

P-1. Palmrest

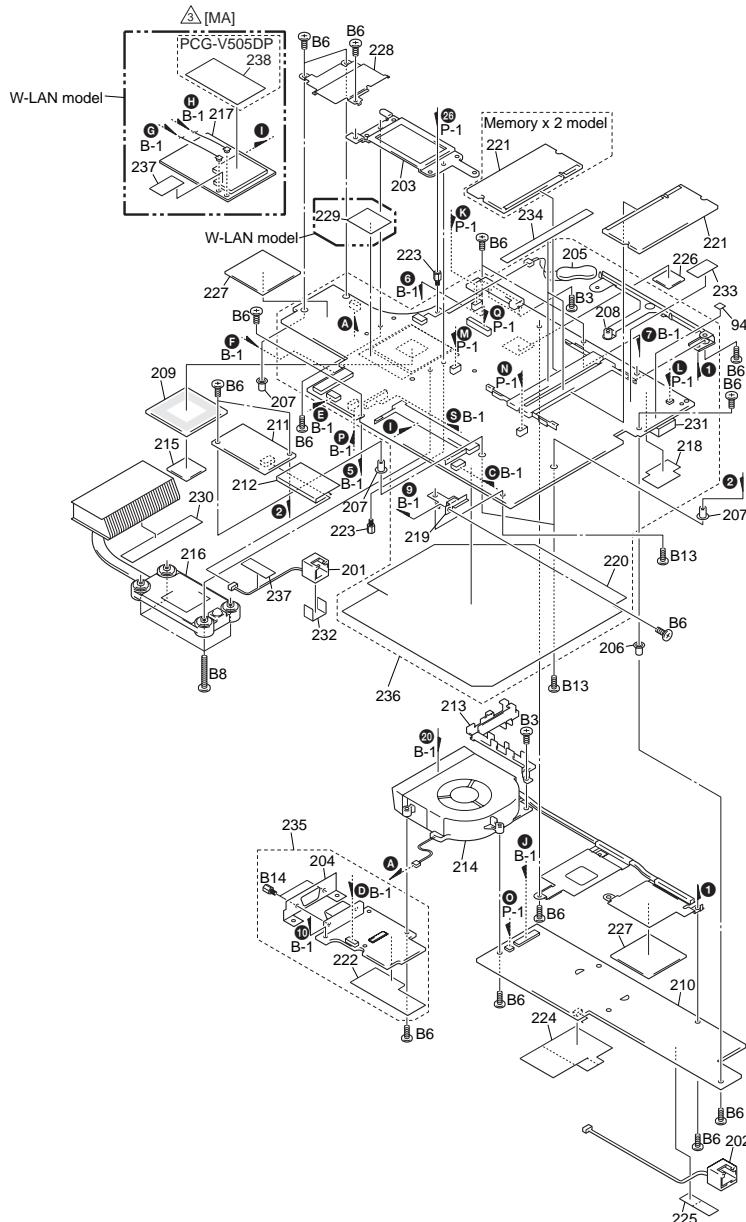


Ref. No.	Part No.	Description
1	A-8068-746-A	\$ COMPLETE PWB (SWX-154) (BB2) (S)
2	1-824-996-71	CABLE, FLEXIBLE FLAT (TP)
3	1-824-996-52	CABLE, FLEXIBLE FLAT (SWX130)
4	X-4626-275-1	HOLDER (TP) (C) ASSY
5	4-670-552-02	PLATE (TP)
6	1-796-623-14	TOUCH PAD
7	1-824-996-22	CABLE, FLEXIBLE FLAT (LEX43)
8	A-8068-744-A	\$ COMPLETE PWB (LEX-51) (BB2) (S)
9	1-962-179-12	HARNESS (WITH DC JACK 2P)
10	4-670-547-01	BRACKET (KENSINGTON)
11	1-824-996-32	CABLE, FLEXIBLE FLAT (LEX44)
12	A-8068-745-A	\$ COMPLETE PWB (LEX-52) (BB2) (S)
13	1-477-748-11	LOUD SPEAKER (2.0CM, WITH BOX)
14	X-4625-593-7	PALMREST (F1) ASSY
15	A-8068-747-A	\$ COMPLETE PWB (IFX-290) (BB2) (S)
16	1-860-586-11	PWB, FLEXIBLE PRINT (MBX-IFX)
18	4-670-846-01	CUSHION (PALM)
19	4-671-180-01	COVER (LENS KB)
20	4-672-928-01	CUSHION (LIGHT SHIELDING)
23	4-673-761-01	TAPE 7X18
24	4-675-709-01	PLATE KB
25	4-678-053-02	CUSHION (DC)
26	4-679-438-01	SHEET (M)
27	4-679-387-01	TAPE (5X35)
28	4-678-054-01	SHEET (VENT)

B1	4-672-836-11	SCREW, M2 SPECIAL HEAD, EG GRIP (M2X4)
B2	4-672-834-01	SCREW, +B EG GRIP (M2X2.5)
B3	4-672-834-31	SCREW, +B EG GRIP (M2X5.0)
B4	4-672-840-01	SCREW, M2 TAPPING, FLAT HEAD (M2X5.0)

- This parts list contains two different types of parts.
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 - この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

M-1. Main Board



Ref. No.	Part No.	Description
201	1-962-036-11	HARNESS (RJ11)
	1-962-095-11	HARNESS,RJ45
* 203	4-670-532-02	BRACKET (CPU)
* 204	4-670-563-01	BRACKET (VGA)
205	1-756-038-21	BATTERY, NICKEL HYDROGEN
206	4-670-168-01	STAND OFF M2X6
207	4-655-326-01	OFF, STAND
* 208	X-4625-591-2	BRACKET (MBX) ASSY
210	A-8068-741-A	COMPLETE PWB (VIF-33) (BB2) (S)
211	1-761-606-14	CARD, MODEM
212	4-671-515-01	FILM (MODEM)
213	4-670-524-01	BRACKET WIRE
214	1-763-974-14	FAN, D.C
215	4-668-785-01	THERMAL SHEET CPU
216	4-670-509-02	HEAT SINK UNIT
* 218	4-679-974-01	SHEET (278VIF), INSULATING
219	4-670-534-02	BRACKET MBX FR
220	4-671-188-01	SHEET (MBX), INSULATING
222	4-671-184-01	SHEET (FAN), INSULATING
223	4-651-989-51	SPACER (MBX)
224	4-671-460-02	TAPE, ETHER CABLE
225	4-671-462-01	TAPE, ETHER CABLE 2 (9X34)
226	4-670-528-01	SHEET (MCH), THERMAL
227	4-670-529-01	SHEET (GFX), THERMAL
* 228	4-670-533-04	HEAT SINK (POWER)
229	4-673-025-01	(W-LAN)...COVER FERRITE CORE
230	4-673-026-01	FILM (FAN)
231	1-793-365-21	CONNECTOR, USB (A)
232	4-673-302-01	ADHESIVE TAPE (RJ)
233	4-673-762-01	CUSHION T4.5
234	4-673-758-01	SPACER T2 (DIM)
235	A-8068-614-A	COMPLETE PWB (CNX-226) (BB) (S)
236	A-8068-612-A	COMPLETE PWB (MBX-100) (BB) (S)
237	4-662-881-02	CUSHION, KEY BOARD
B3	4-672-834-31	SCREW, +B EG GRIP (M2X5.0)
B6	4-672-834-21	SCREW, +B EG GRIP (M2X3.5)
B13	4-672-836-01	SCREW, M2 SPECIAL HEAD, EG GRIP (M2X3)
B14	4-635-966-01	SCREW (HEX)

Ref. No.	Part No.	Description	V505GB	J	V505T4P	V505EXP	AM	V505ECP	V505NFP	EU	V505NMP	V505MNIP	V505MNCP	V505MNJP
△ [MA]	209	6-600-338-01 (M-Cel-1.2GHz), IC RH80535NC009512SL79S (PM-1.4GHz), IC RH80535GC011MSLFB8 (PM-1.5GHz), IC RH80535GC0211MSLFB9 (PM-1.6GHz), IC RH80535GC0251MSLFB9A (PM-1.7GHz), IC RH80535GC0251MSLFB9B (PM-1.8GHz), IC RH80535GC0332M CARD, WIRELESS LAN (CLX1B 14CH)	●	●	●	●	●	●	●	●	●	●	●	●
△ [MA]	217	1-761-784-11 WIRELESS LAN CARD 1-761-864-31 WIRELESS LAN CARD 1-761-660-13 CARD, WIRELESS LAN (CLX1B 11CH) 6-705-094-01 (256MB), IC M470L3224FT-CB3 A-8068-348-A (512MB), COMPLETE PWB MM-10A 6-705-545-01 (1024MB), IC EBD11UD8ABA-6B SHEET (955), SHEILD	●	●	●	●	●	●	●	●	●	●	●	●
△ [MA]	238	4-683-023-01	●	●	●	●	●	●	●	●	●	●	●	●

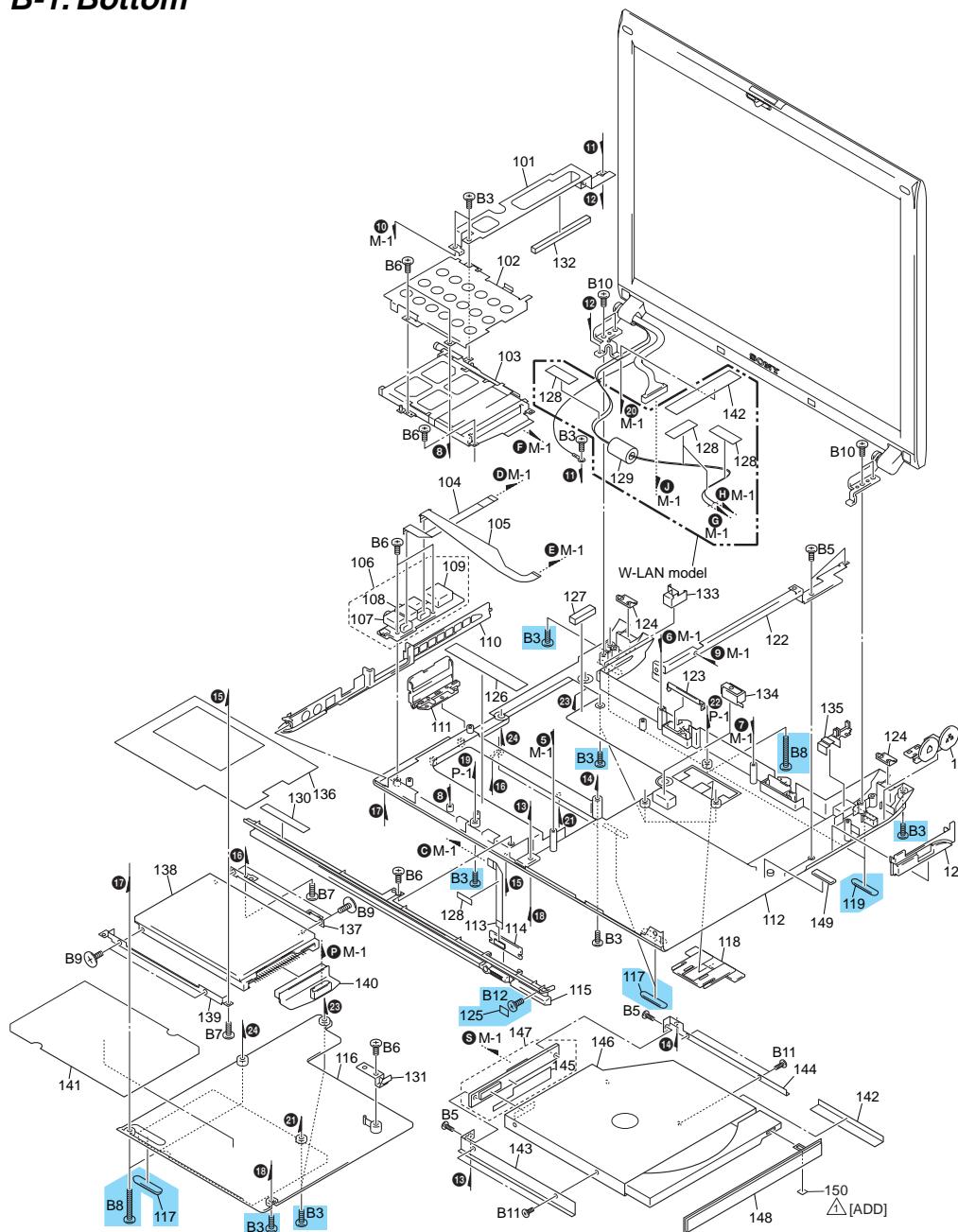
- This parts list contains two different types of parts.
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- When change the CPU (ref. 209), refer to "Replacing the CPU" in CHAPTER 5.
- CPU (Ref. 209) を交換する際には、CHAPTER 5の「Replacing the CPU」をご参照下さい。

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 PCG-V505G/V505T4/V505VZ (J)
 PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
 PCG-V505DP (EU)
 PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)

B-1. Bottom



Ref. No.	Part No.	Description
* 101	4-670-521-02	BRACKET (BOTTOM L)
* 102	4-670-517-03	BRACKET (PC CARD)
103	1-817-276-14	CONNECTOR, PC CARD
104	1-824-996-61	CABLE, FLEXIBLE FLAT (CNX197)
105	1-687-953-11	FPC (I.LINK & USB)
106	A-8068-742-A	COMPLETE PWB (CNX-227) (BB2) (S)
107	1-694-760-21	JACK, SMALL TYPE (HEADPHONE)
108	1-694-760-41	JACK, SMALL TYPE (MICROPHONE)
109	1-794-548-21	CONNECTOR, USB (A)
110	4-678-049-02	ESCUCHÉON (SIDE L) (UL)
111	X-4625-584-4	DOOR (VGA) ASSY
112	X-4625-583-4	HOUSING (BOTTOM) (F1) ASSY
113	1-824-996-41	CABLE, FLEXIBLE FLAT (SWX129)
114	A-8068-806-A	COMPLETE PWB (SWX-156) (BB) (S)
116	4-670-526-04	COVER (BOTTOM)
117	4-635-946-41	& FOOT
118	4-670-523-02	DOOR DOCK
119	4-673-102-01	& FOOT (R)
120	4-670-519-03	ESCUCHÉON (SIDE R)
121	X-4625-585-3	DOOR (RJ) ASSY
* 122	4-670-522-01	& PLATE (OP) (T)
123	4-670-525-01	COVER (BATTERY LOCK)
124	4-670-796-02	STOPPER HINGE
125	4-671-336-03	& COVER SEAL 6x4
126	4-671-463-02	TAPE, FPC CABLE (60x10)
127	4-671-506-01	GASKET (FAN)
128	4-662-881-02	CUSHION, KEY BOARD
129	1-400-255-11	(W-LAN)...FERRITE CORE
130	4-673-009-02	SHADE CLOTH (A)
131	4-672-759-01	HOOK (COVER BOTTOM)
132	4-680-578-01	GASKET 5x3
133	4-678-050-01	COVER (L)
134	4-678-052-02	COVER (C)
135	4-678-051-01	COVER (R)
136	4-671-028-01	SHEET (HDD) (T), INSULATING
* 137	4-670-511-01	BRACKET (HDD) (R)
* 139	4-670-510-01	BRACKET (HDD) (F)
140	1-687-015-11	PWB, FLEXIBLE PRINT (HDD)
141	4-671-027-01	SHEET (HDD) (B), INSULATING
142	4-673-292-01	COPPER TAPE FAN
* 143	4-670-503-02	BRACKET (OP) (F)
* 144	4-670-504-02	BRACKET (OP) (R)
145	4-671-026-01	SHEET (OP), INSULATING
147	A-8068-743-A	COMPLETE PWB (CNX-228) (BB2) (S)
149	4-680-812-01	CUSHION (OPT)
B3	4-672-834-31	<>& SCREW, +B EG GRIP (M2X5.0)
B5	4-672-834-11	SCREW, +B EG GRIP (M2X3.0)
B6	4-672-834-21	SCREW, +B EG GRIP (M2X3.5)
B7	4-672-834-51	SCREW, +B EG GRIP (M2X4)
B8	4-672-834-13	SCREW, +B EG GRIP (M2X13)
B9	4-672-839-01	HEAD, M3 FLAT (M3X4)
B10	4-672-835-01	SCREW, M2.6 +B EG GRIP (M2.6X5)
B11	4-671-538-01	SCREW (M2X2), SPECIAL HEAD
B12	4-671-539-01	M2 +P EG GRIP (M2X4)

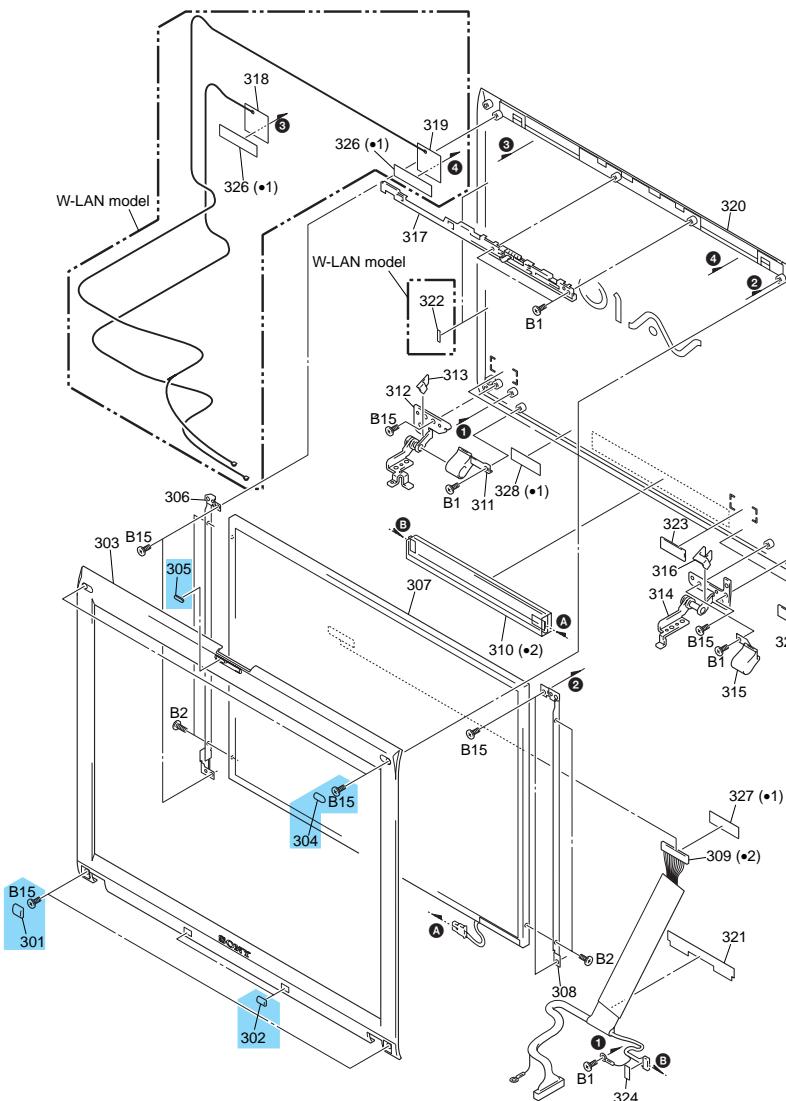
Ref. No.	Part No.	Description	J	V505GB	V505VZP	V50514+	V505EXP	AM	V505CP+	EU	V505FP	AO	V505MNCP	V505MNJP
115	X-4626-274-1	△(MA) (W-LAN)...ESCUCHÉON (F) (W-LAN) (UL) ASSY (No W-LAN)...ESCUCHÉON (F) (W-LESS) (UL) ASSY	●	●	●	●	●	●	●	●	●	●	●	●
138	X-4626-273-1	△(MA) ASSY HDD 40GB (H. 40) (S)	●	●	●	●	●	●	●	●	●	●	●	●
139	A-8117-059-A	△(MA) ASSY HDD 40GB (H. 40) (D)	●	●	●	●	●	●	●	●	●	●	●	●
140	A-8111-360-A	△(MA) ASSY HDD 80GB (H. 40) (S)	●	●	●	●	●	●	●	●	●	●	●	●
141	A-8117-058-A	△(MA) ASSY HDD 80GB (H. 40) (S)	●	●	●	●	●	●	●	●	●	●	●	●
146	1-798-822-11	△(MA) COMBO DRIVE (UJDA755, 9.5MM)	●	●	●	●	●	●	●	●	●	●	●	●
148	1-798-881-12	△(MA) DVDRW (UJ-812, 9.5MM)	●	●	●	●	●	●	●	●	●	●	●	●
150	X-4626-549-1	△(MA) BEZEL (OP) (M) (RV) ASSY	●	●	●	●	●	●	●	●	●	●	●	●
150	2-021-077-01	△(MA) BEZEL (OP) (M) (RV) ASSY	●	●	●	●	●	●	●	●	●	●	●	●

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 PCG-V505G/V505T4/V505VZ (J)
 PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
 PCG-V505DP (EU)
 PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)

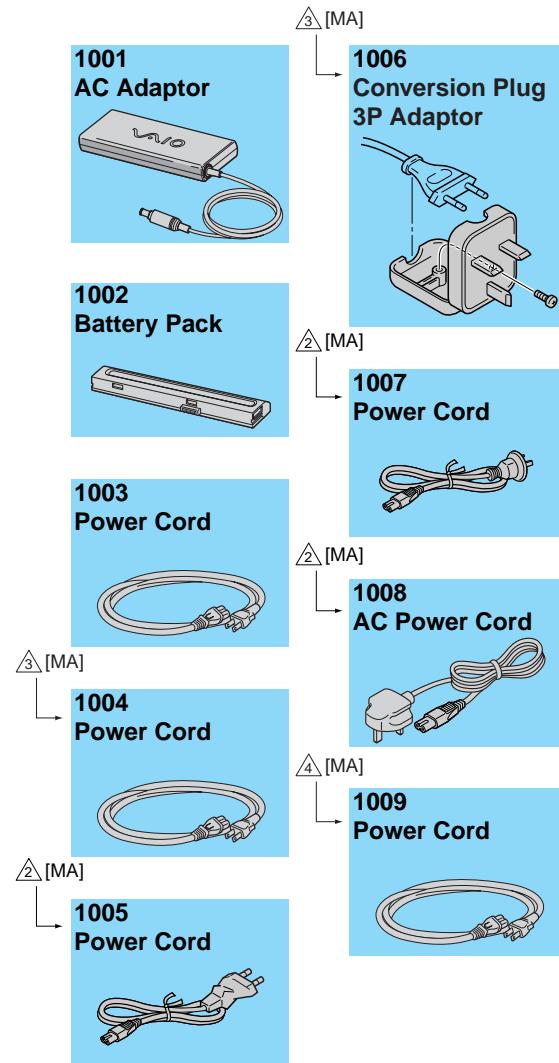
L-1. LCD 12.1-inch XGA – *Made by TO* –



Ref. No.	Part No.		Description
301	4-670-474-01	&	CUSHION (L)
302	4-670-476-01	&	CUSHION (CENTER)
303	X-4625-579-5		HOUSING (BEZEL) ASSY
304	4-670-473-01	&	CUSHION (U)
305	4-670-475-01	&	CUSHION (LATCH)
* 306	4-670-481-02		BRACKET (LCD L)
307	A-8118-175-A	\$ #	LCD UNIT (12.1 TFT XGA) (S)
* 308	4-670-482-02		BRACKET (LCD R)
309	1-961-998-31		HARNESS, LCD ('2)
310	1-478-283-11		INVERTER UNIT ('2)
311	4-670-477-02		COVER (L), HINGE
312	4-670-483-01		TIKT UNIT (L)
313	4-670-479-01		CAP (L), HINGE
314	4-670-484-02		TIKT UNIT (R)
315	4-670-478-02		COVER (R), HINGE
316	4-670-480-03		CAP (R), HINGE
317	X-4625-580-3		LATCH ASSY
318	1-754-272-12		(W-LAN)...ANTENA, FILM (FOR LEFT)
319	1-754-272-22		(W-LAN)...ANTENA, FILM (FOR RIGHT)
320	A-8117-843-A		HOUSING DISPLAY ASSY (BADGE) (S)
321	4-673-031-01		COPPER TAPE (LCD)
322	4-670-485-01		(W-LAN)...CUSHION (ANT)
323	4-673-032-01		CUSHION (GAP)
324	4-662-881-02		CUSHION, KEY BOARD
325	4-673-088-01		TAPE, HARNESS (INV)
326	-		(W-LAN)...FILAMENT TAPE (W12X50) (*1)
327	-		FILAMENT TAPE (W12X30) (*1)
328	-		FILAMENT TAPE (W12X40) (*1)
B1	4-672-836-11		SCREW, M2 SPECIAL HEAD, EG GRIP (M2X0.5)
B2	4-672-834-01		SCREW, +B EG GRIP (M2X2.5)
B15	4-671-538-11	<&>	SCREW (M2X4), SPECIAL HEAD

- 1 Use the FILAMENT TAPE.
 - 2 When you exchange Ref. 309 or Ref. 310, please exchange both together.
 - 1 Use the FILAMENT TAPE.
 - 2 Ref. 309または310の部品を交換するときは、両方の部品を同時に交換してください。

A-1. Accessories



Ref. No. Part No. Description
 △ 1001 1-477-749-51 \$ & ADAPTOR, AC

Ref. No.	Part No.	Description	J	AM	EU	AO
1002	A-8114-136-A	& BP2V (U) ASSY (S)	●	●	●	
	A-8114-137-A	& BP2V (U) ASSY (S)				
△ (IMA)	A-8114-138-A	& BP4V (U) ASSY (S)				
△ (IMA)	1-756-326-22	& BATTERY PACK, LITHIUM ION	●	●	●	●
△ (IMA)	1-790-732-32	& CORD, POWER				
△ (IMA)	1-790-733-32	& CORD, POWER				
△ (IMA)	1-795-131-61	& CORD, POWER				
△ (IMA)	1-770-019-11	& ADAPTOR, CONVERSION PLUG 3P				
△ (IMA)	1-1007	1-555-074-31	& CORD, POWER			
△ (IMA)	1-1008	1-823-055-51	& CORD, POWER			
△ (IMA)	1-1009	1-823-055-52	& CORD, POWER			
△ (IMA)	1-816-429-12	& (UK)-PHONE, PLUG (GB)				
△ (IMA)	-	& (Italian)-PHONE, PLUG (IT)				
△ (IMA)	-	& MANUAL (XP), INSTRUCTION	●	●	●	●
△ (IMA)	-	& MANUAL (XP), INSTRUCTION				
△ (IMA)	-	& QUICK START				
△ (IMA)	-	& GETTING STARTED				
△ (IMA)	-	& (UK,Sweden)-HW SPECS				
△ (IMA)	-	& (UK,Sweden)-HW SPECS				
△ (IMA)	-	& (French,Swiss)-HW SPECS				
△ (IMA)	-	& (Italian,Swiss)-HW SPECS				
△ (IMA)	-	& (UK)-HW SPECS				
△ (IMA)	-	& (UK)-HW SPECS				
△ (IMA)	-	& MANUAL (XP), INSTRUCTION	●	●	●	●
△ (IMA)	-	& MANUAL (XP), INSTRUCTION				
△ (IMA)	-	& MANUAL (XP), INSTRUCTION				
△ (IMA)	-	& INSTRUCTION (SPEC)				
△ (IMA)	-	& INSTRUCTION (SPEC)				

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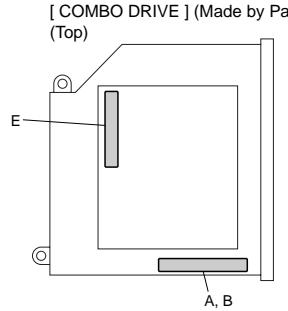
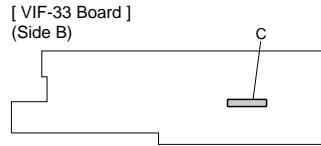
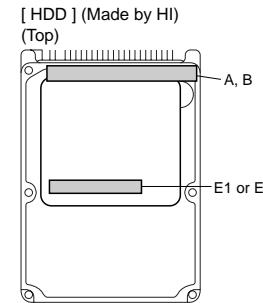
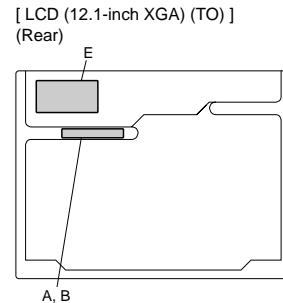
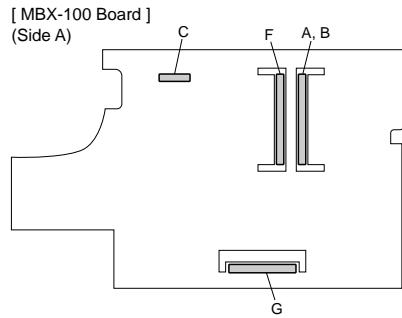
CHAPTER 5.

OTHER

5-1. The Barcode Label

The hatched portion of the barcode is used as the repair data.

バーコードラベルの網掛け部は、修理データとして使用いたします。



A	: Part No.
B	: Serial No.
C	: Revision No.
D	: Product Code
E	: Maker Barcode
F	: Global User ID (iLink)
G	: Mac Address
[]	: Barcode

Confidential

PCG-V505G/V505T4/V505VZ (J)

PCG-V505EC/V505ECP/V505EX/V505EXP/**V505NFP** (AM)

PCG-V505DP (EU)

PCG-V505MNCP/**V505MNJP**/V505MNP/V505MNSP/V505NTP (AO)

5-2. Replacing the CPU

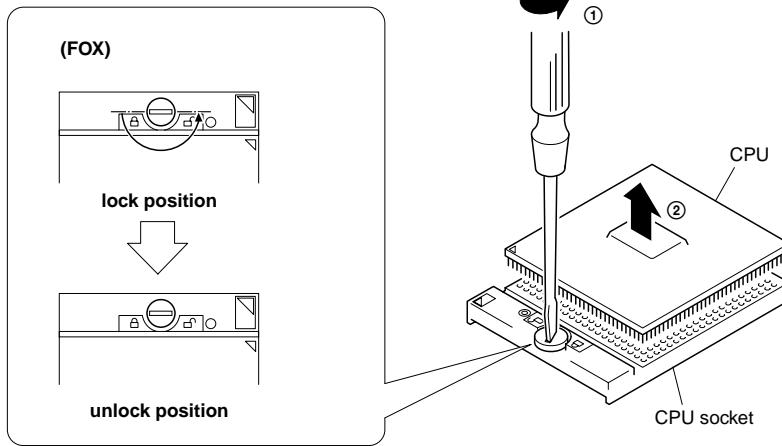
Note: We have two kinds of CPU for this set, and either of them is used.

Two kinds of CPU have differences in the lock position and the unlock position.

1. Socket configuration 1

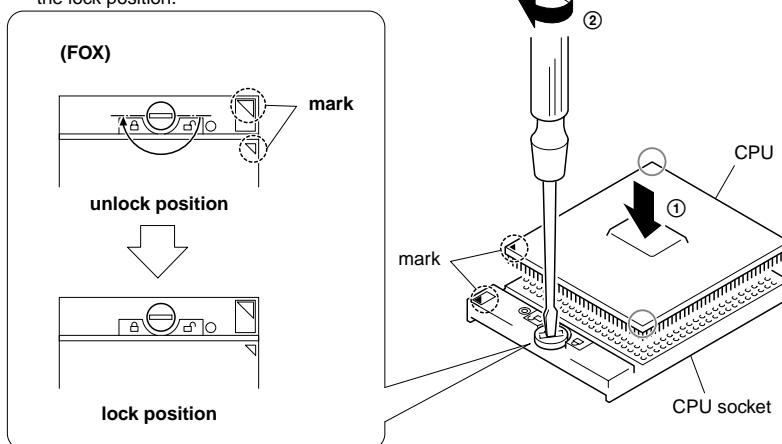
1. How to remove the CPU

- ① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.
- ② Remove up the CPU.



2. How to install the CPU

- ① Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.
- ② Pressing two corners marked with \bigcirc in the figure, rotate the lock with a flat-blade screwdriver toward the lock position.

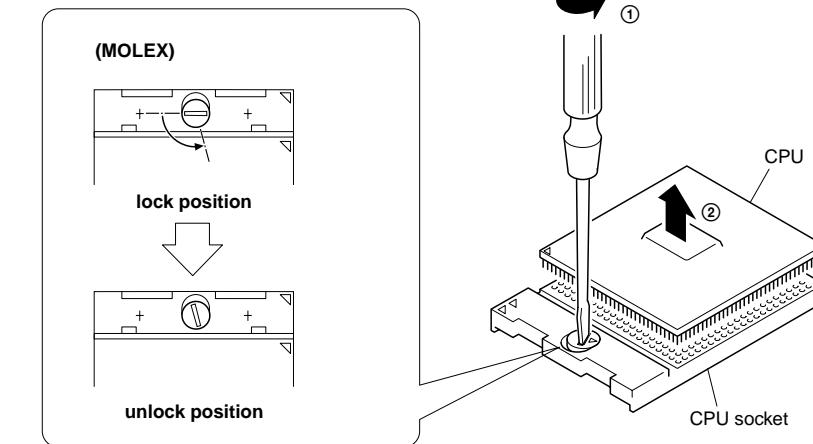


Note: Lock the CPU properly, or operation becomes unstable.

2. Socket configuration 2

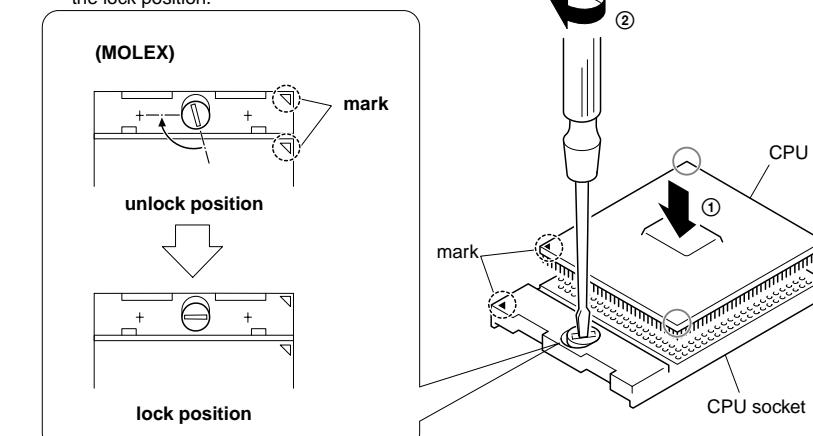
1. How to remove the CPU

- ① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.
- ② Remove up the CPU.



2. How to install the CPU

- ① Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.
- ② Pressing two corners marked with \bigcirc in the figure, rotate the lock with a flat-blade screwdriver toward the lock position.



Note: Lock the CPU properly, or operation becomes unstable.

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PCG-V505G/V505T4/V505VZ (J)
PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
PCG-V505DP (EU)
PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)



PCG-V505G/V505T4/V505VZ (J)
 PCG-V505EC/V505ECP/V505EX/V505EXP/**V505NFP** (AM)
 PCG-V505DP (EU)
 PCG-V505MNCP/**V505MNJP**/V505MNP/V505MNSP/V505NTP (AO)

List of PCG-V505 Series (As of April, 2004)

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-081-XX	PCG-V505/B PCG-V505R/PB			
9-876-082-XX		PCG-V505AX PCG-V505AXP		
9-876-084-XX		PCG-V505FP		
9-876-083-XX		PCG-V505AP PCG-V505AK PCG-V505BP		
9-876-085-XX			PCG-V505P	
9-876-086-XX			PCG-V505L	
9-876-088-XX			PCG-V505SP	
9-876-089-XX			PCG-V505T	
9-876-087-XX			PCG-V505CP PCG-V505ZCP	
9-876-310-XX	PCG-V505E/B PCG-V505S/PB PCG-V505V/P			
9-876-311-XX		PCG-V505BL PCG-V505BX PCG-V505BXP		
9-876-312-XX		PCG-V505GFP PCG-V505GZFP		
9-876-313-XX			PCG-V505GP PCG-V505GZC	
9-876-315-XX			PCG-V505GCP	
9-876-314-XX			PCG-V505GL	
9-876-316-XX			PCG-V505GSP	
9-876-317-XX			PCG-V505GTP	
9-876-357-XX		PCG-V505DC2* PCG-V505DC2K* PCG-V505DC2P*		
9-876-346-XX		PCG-V505MFP		
9-876-348-XX			PCG-V505MZC PCG-V505MZNC	
9-876-347-XX			PCG-V505MZL	

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-349-XX	PCG-V505F/B PCG-V505T3/Px* PCG-V505T3x* PCG-V505W/P	PCG-V505DC1x* PCG-V505DC1Px* PCG-V505DH PCG-V505DX PCG-V505DXP	PCG-V505CP	PCG-V505MCP PCG-V505MLP PCG-V505MP PCG-V505MSP PCG-V505MTP
9-876-363-XX	PCG-V505G/B PCG-V505T4* PCG-V505T4/P* PCG-V505VZ/P	PCG-V505EC* PCG-V505ECP* PCG-V505EX PCG-V505EXP PCG-V505NFP	PCG-V505DP	PCG-V505MNCP PCG-V505MNJP PCG-V505MNP PCG-V505MNSP PCG-V505NTP

* : CTO Model

: Additional Models

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Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2004.01.16	First Edition	
-02	Ver. 2	2004.01.20	 Page 1-2, Page 4-4	N2004_009CK
-03	Ver. 3	2004.01.26	 Front Page (Model Lineup), Page 1-1, Page 4-1 to 4-4, Page 4-6, Back Cover	N2004_007AK
-04	Ver. 4	2004.02.09	 Front Page (Model Lineup), Page 1-1, Page 1-3, Page 4-1 to 4-4, Page 4-6, Back Cover	N2004_016AK
-05	Ver. 5	2004.02.23	 Front Page (Model Lineup), Page 1-1, Page 4-1 to 4-4, Page 4-6, Back Cover	N2004_022AK
-06	Ver. 6	2004.04.21	 Front Page (Model Lineup), Page 1-1, Page 4-1 to 4-4, Page 4-6, Back Cover	N2004_046AK
<p><Remarks></p>				

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PCG-V505G/V505T4/V505VZ (J)
 PCG-V505EC/V505ECP/V505EX/V505EXP/**V505NFP** (AM)
 PCG-V505DP (EU)
 PCG-V505MNCP/**V505MNJP**/V505MNP/V505MNSP/V505NTP (AO)